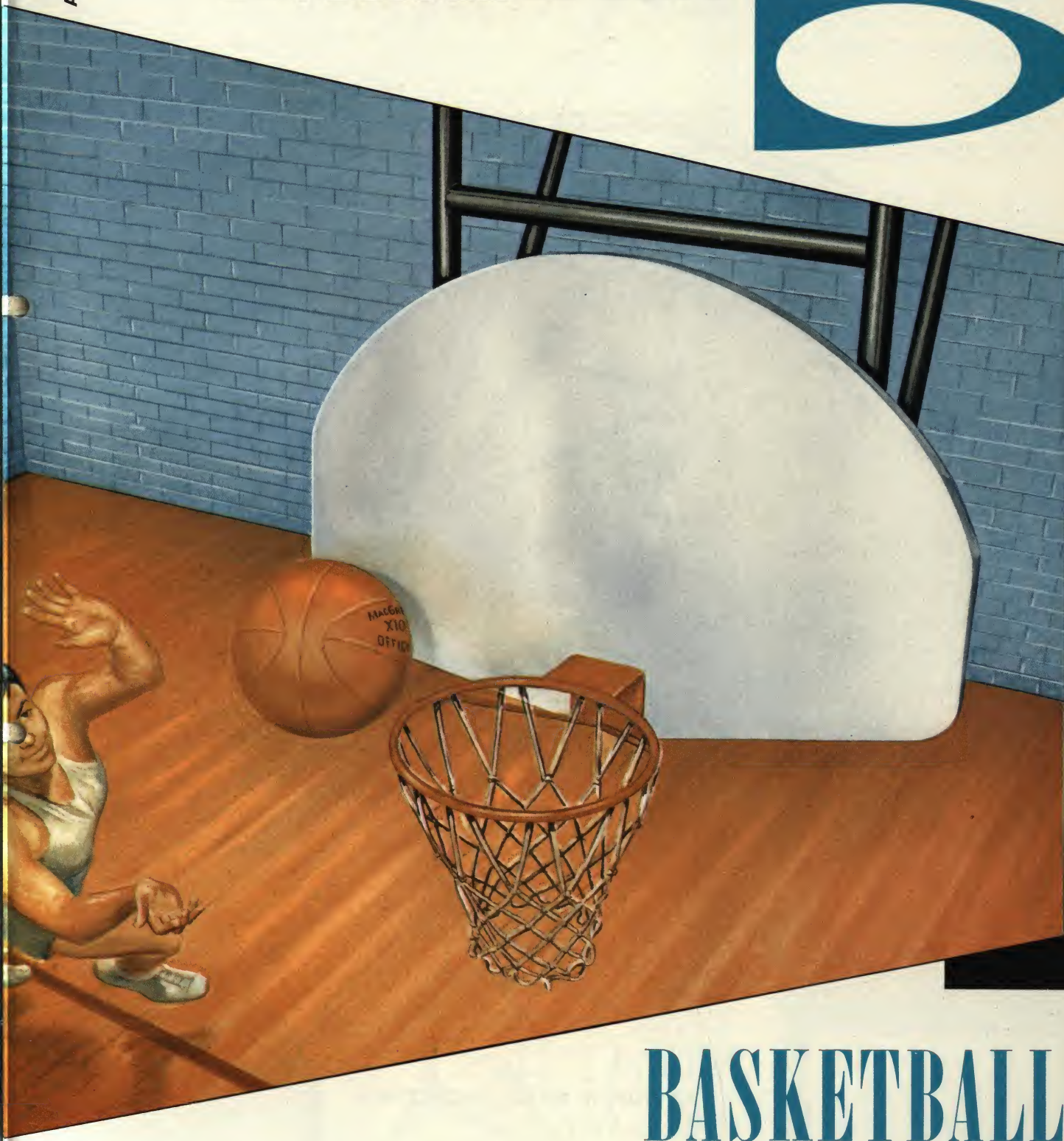
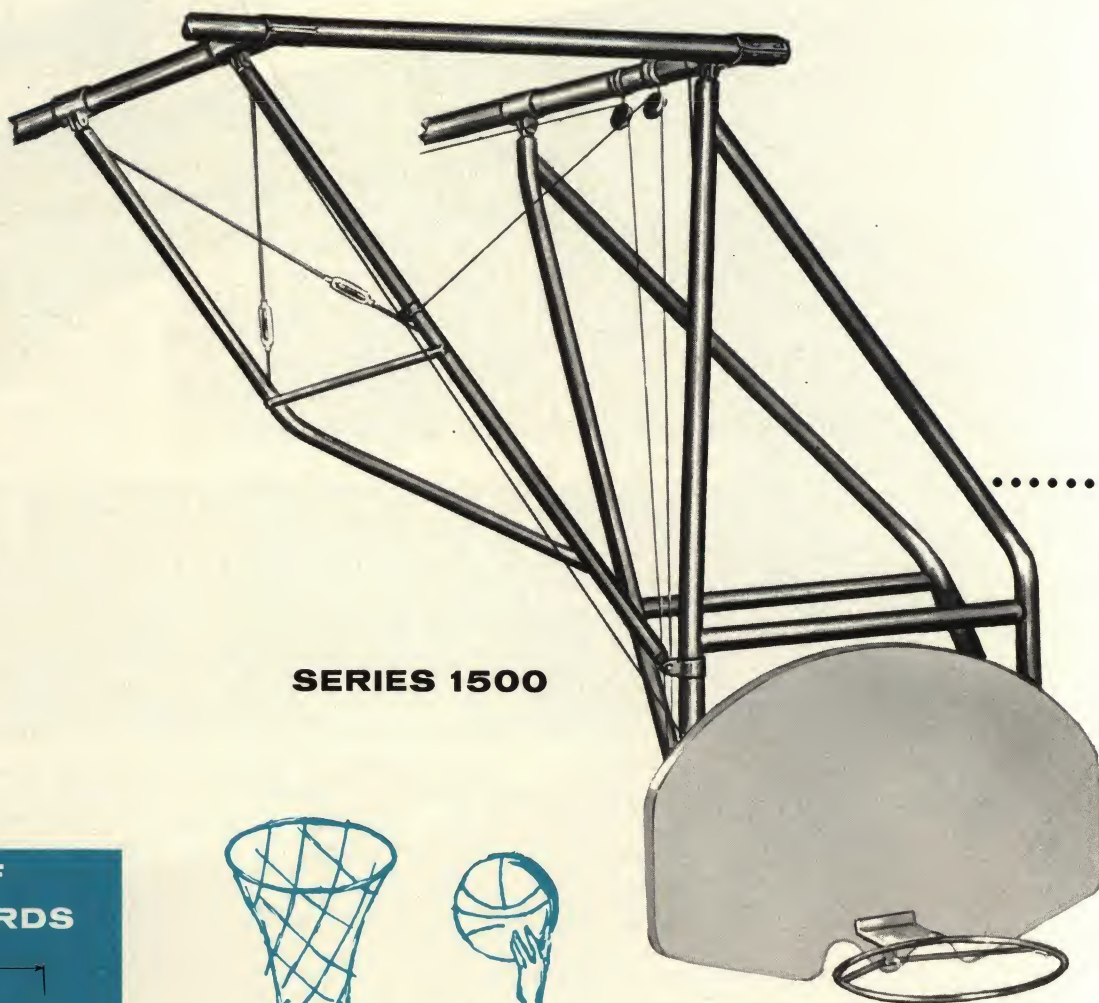


Brunswick



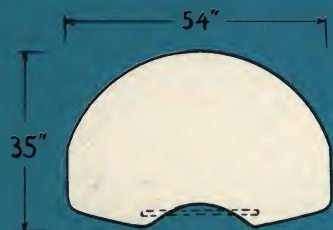
BASKETBALL BACKSTOPS

A UNIQUE CONCEPT IN FOLDING BACKSTOPS



SERIES 1500

FOUR TYPES OF BANKBOARDS



FAN-SHAPED GLASS
FAN-SHAPED STEEL

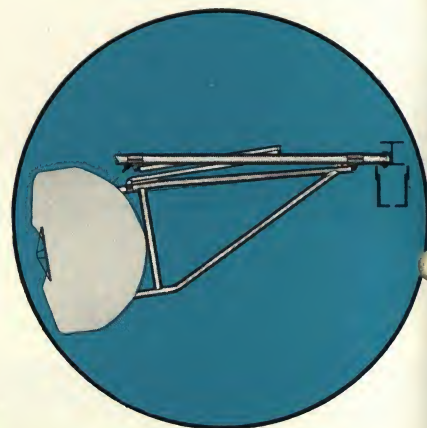


RECTANGULAR WOOD
RECTANGULAR GLASS



UNIQUE SIDE FOLDING

Exclusive design allows Brunswick's side fold unit to fold to the side . . . out of the way of folding partition.





SERIES 312

- No cables in playing area
- No cable pull ropes required
- Minimum folding space
- Extra stabilizer cables
- Economical electric operation
- Self-locking safety winch
- All types of goals and nets
- Nine models to choose from
- Steel guy rods
- No unauthorized operation

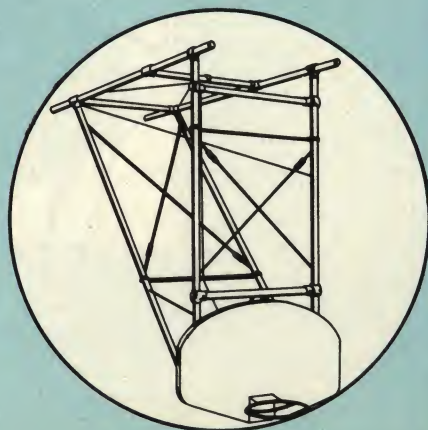


MAXIMUM RIGIDITY

Maximum rigidity is assured by placement of stabilizer cable between front drop pipes and the upper frame . . . minimizes vibration when in playing position.

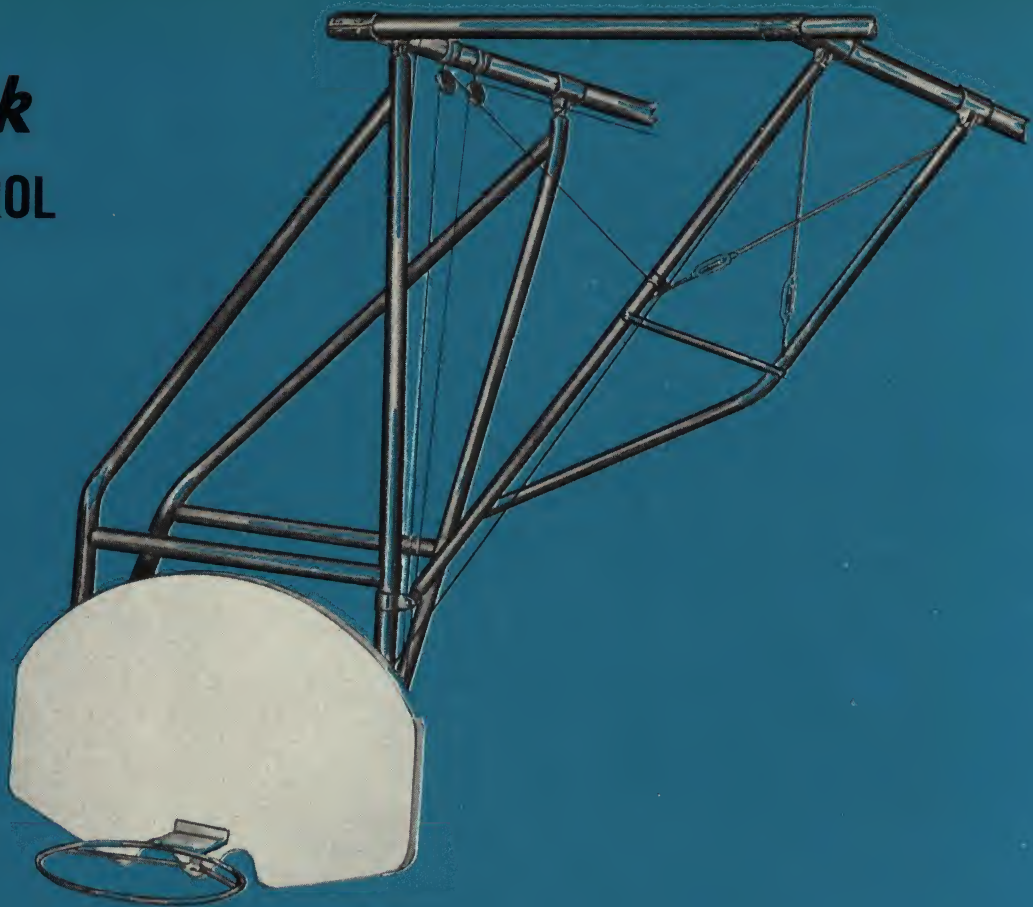
CONCEALED CABLES

All cables are located inside the folding structure thus eliminating unsightly pull ropes needed in the forward folding types.



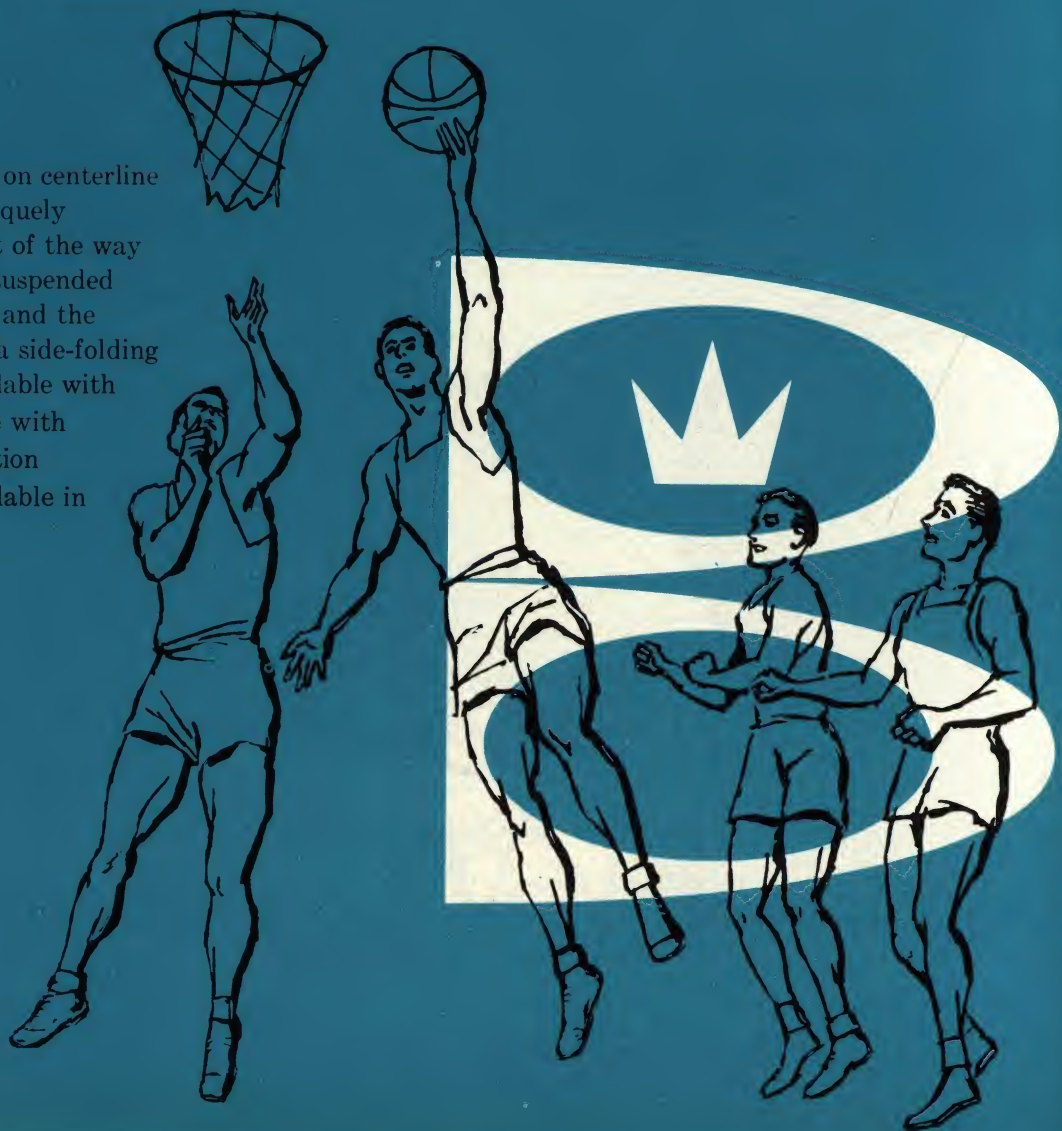
Brunswick

REMOTE CONTROL SIDE FOLD BACKSTOP



SERIES 1500

unit especially adapted to hang on centerline folding partitions. And this uniquely designed unit folds to the side out of the way of folding partitions. The unit is suspended on one side of the door centerline and the backboard is held in position by a side-folding brace. This rigid structure is available with all type of backboards. Available with economical portable power operation (using $\frac{1}{2}$ " drill motor). Also available in cost-saving manual operation.



Brunswick
**REMOTE CONTROL
 ELECTRICALLY OPERATED
 BACKSTOP**

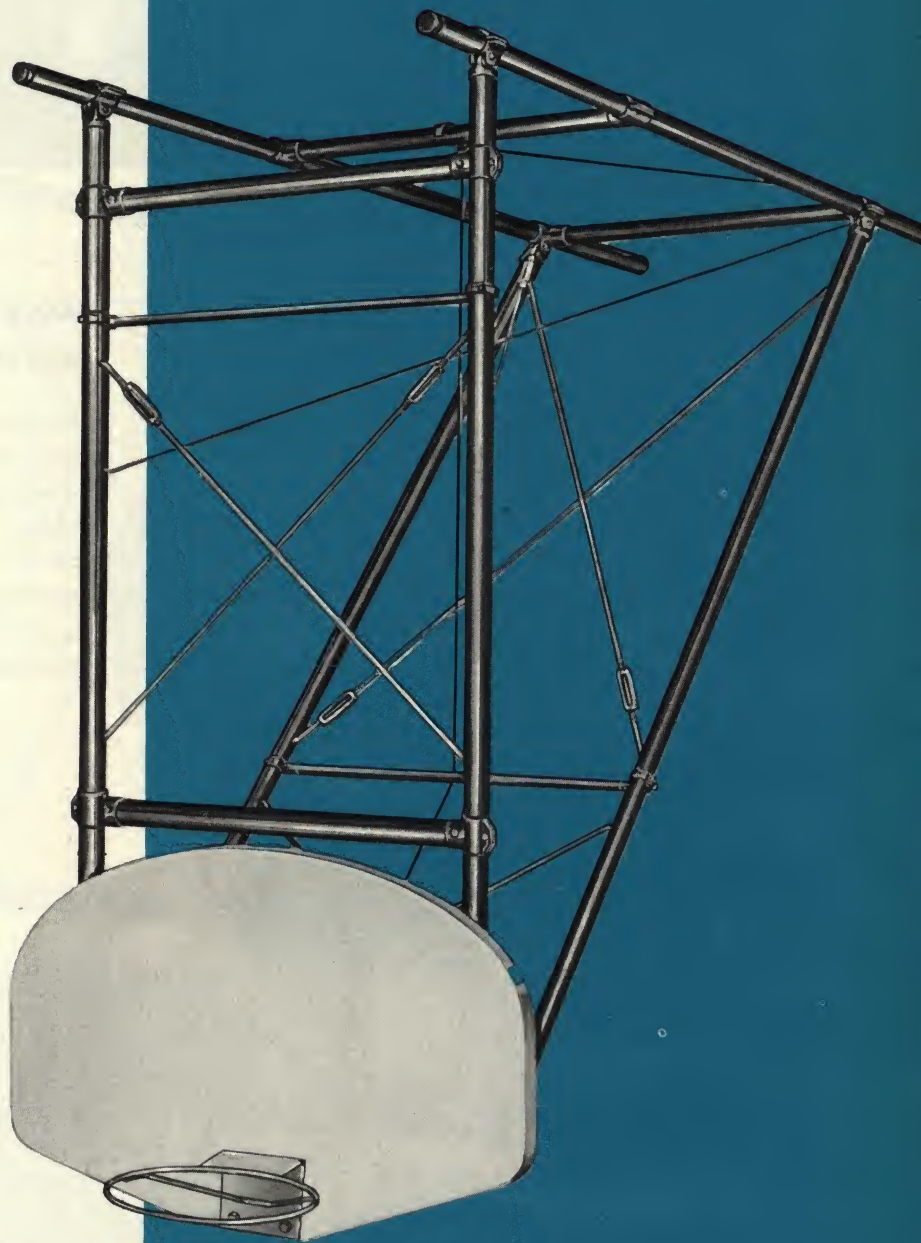
SERIES 312

**THE ONLY BACKSTOP
 THAT FOLDS WITHIN ITSELF**

Brunswick

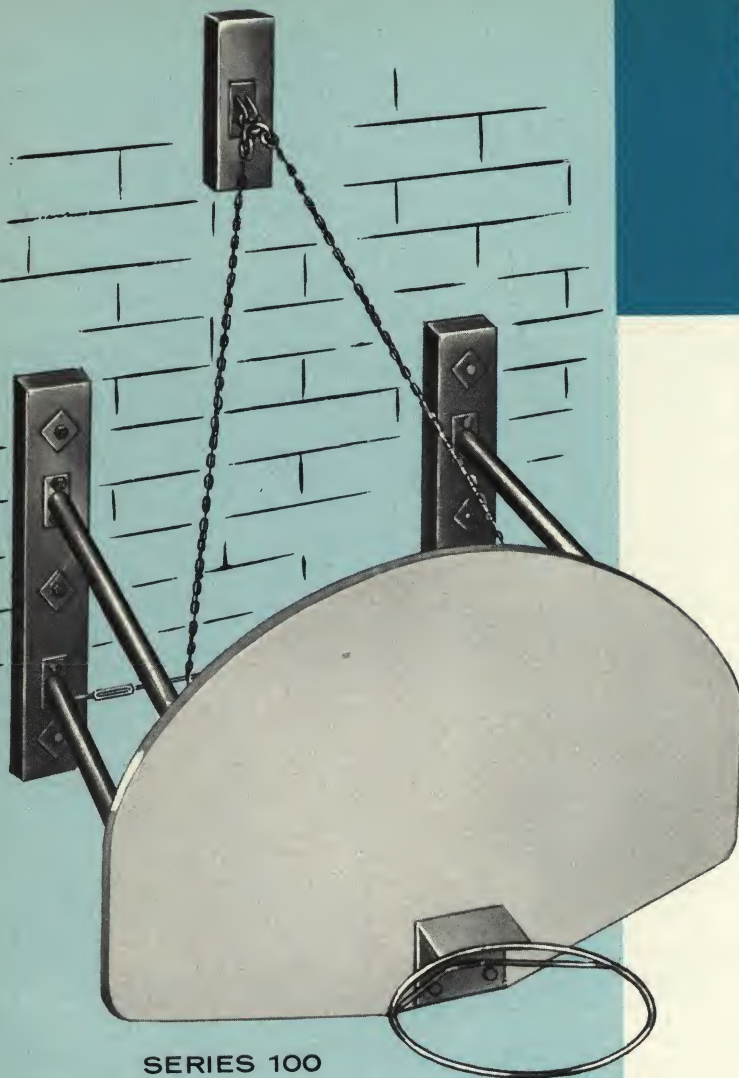
Here's a revolutionary method of folding basketball backstops that not only insures a maximum of rigidity, but permits units to be folded in a minimum of space. Ideal for use in front of stages, over balconies, or in any gymnasium where a compact method of folding is desired, and it's shipped preassembled for easy installation.

Folding is accomplished by placing knee-joints in the front drop pipes as well as the back braces. When winch is operated unit folds straight up instead of in a space-wasting back or forward motion. Stabilizer cables are placed between two predetermined points on front drop pipes and upper framework. Proper tension is maintained in the stabilizer cables in the playing position and is automatically released when the unit is folded, thus reducing unit vibration to a minimum. All cables are located inside the folding structure thus eliminating the unsightly pull ropes needed in the forward folding types. Available with economical portable power operation (using $\frac{1}{2}$ " drill motor). Also available in cost-saving manual operation.

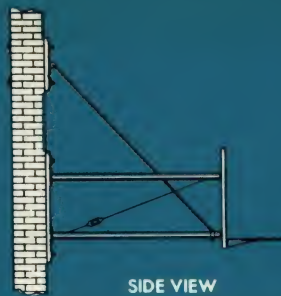


COMPACT FOLDING

Unique knee-joint design allows unit to fold within 9 in. of ceiling.



SERIES 100



SIDE VIEW



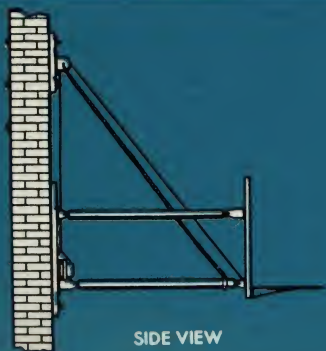
FRONT VIEW

WALL-BRACED BACKSTOP SERIES 100

Simply designed for maximum performance, this unit is ideal for small gymnasiums or as practice units where walls are strong and folding is unnecessary. This strong, rigid unit can be mounted flush where space is at a premium, or can be mounted on 8 ft. extended supports. Either mounting can be furnished with fan-shaped bankboards of wood, steel or glass.

WALL FOLD-UP BACKSTOP SERIES 150

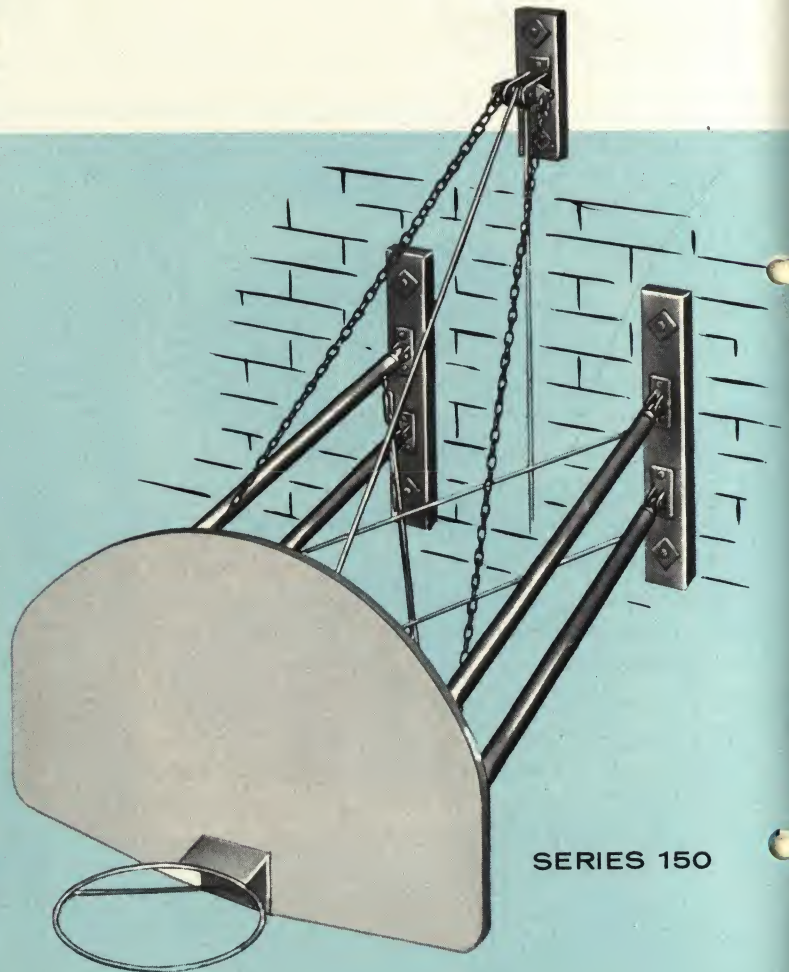
Ideal as a space-saving unit in small gymnasiums where folding is necessary. This strong, rigid backstop is also ideal as a practice unit. It can be mounted up to 8 ft. from the wall. Either mounting can be furnished with fan-shaped bankboards of wood, steel or glass.



SIDE VIEW



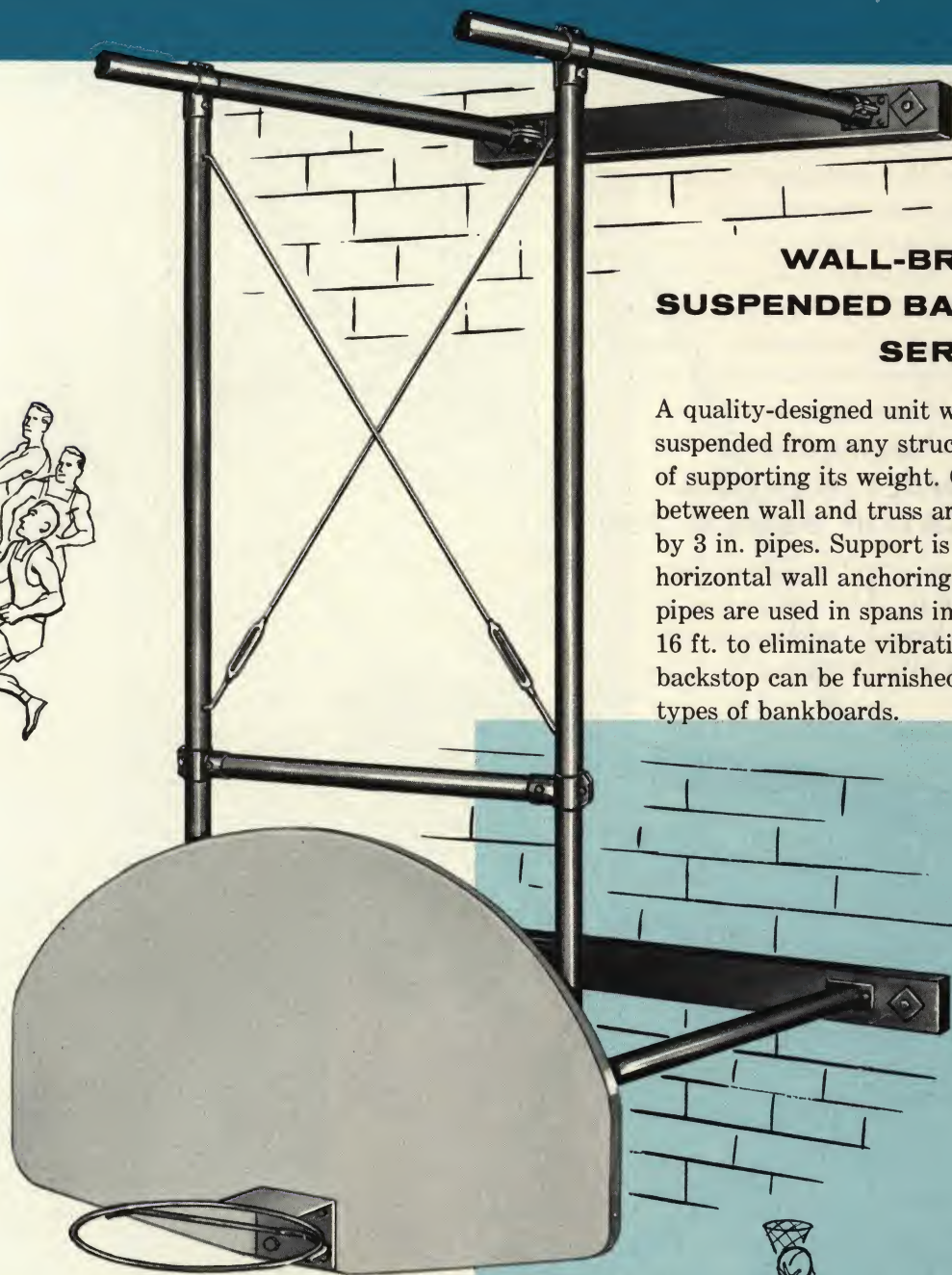
FRONT VIEW



SERIES 150

Brunswick OFFERS A BACKSTOP TO MEET EVERY GYMNASIUM REQUIREMENT

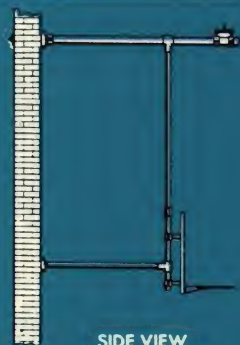
23k
Ho



WALL-BRACED... SUSPENDED BACKSTOP SERIES 400

A quality-designed unit which may be suspended from any structure capable of supporting its weight. Open areas between wall and truss are spanned by 3 in. pipes. Support is provided by horizontal wall anchoring. Trussed pipes are used in spans in excess of 16 ft. to eliminate vibration. This backstop can be furnished with all types of bankboards.

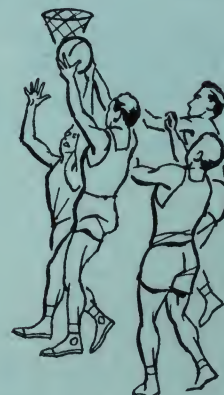
SERIES 400



SIDE VIEW



FRONT VIEW



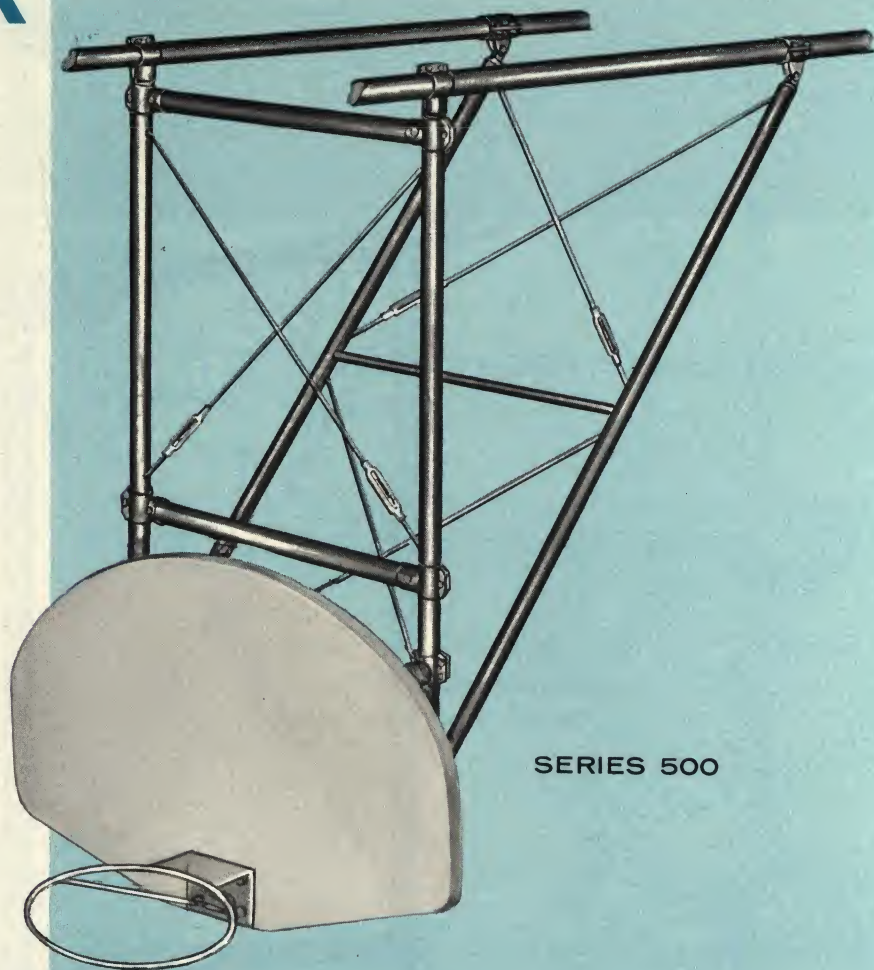
Brunswick

STRUCTURE SUSPENDED AND BRACED BACKSTOP SERIES 500

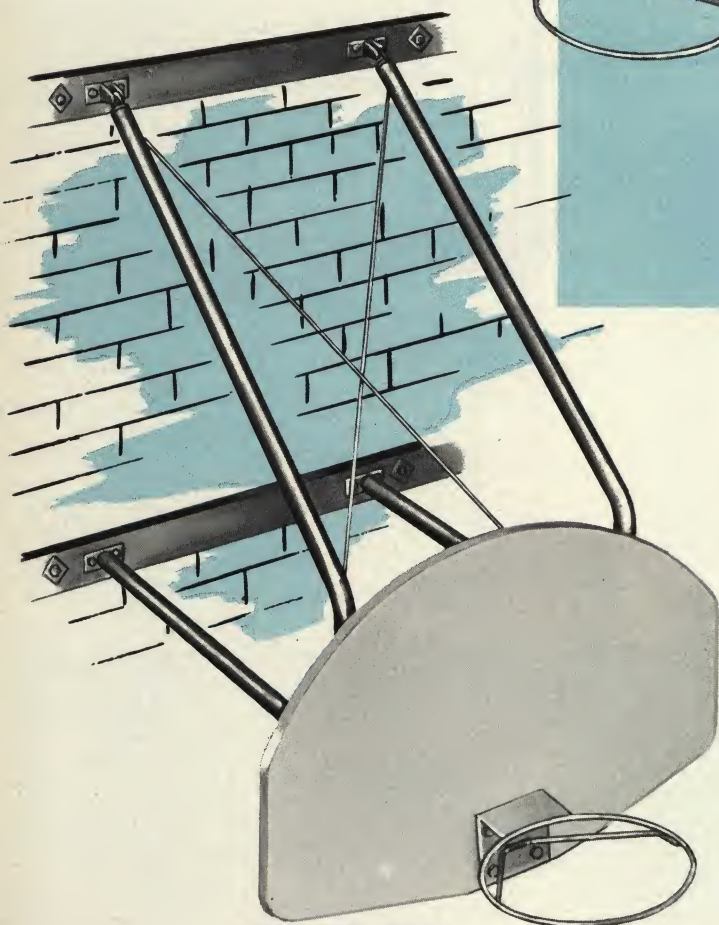
A unit uniquely designed for overhead suspension when the wall is too far from the desired location of the backstop. This unit may be suspended from any structure capable of supporting its weight. Open areas between trusses are spanned by 3 in. pipes. Trussed pipes are used in spans exceeding 16 ft. to eliminate vibration. This backstop can be furnished with all types of bankboards.

MODIFIED WALL-BRACED BACKSTOP SERIES 700

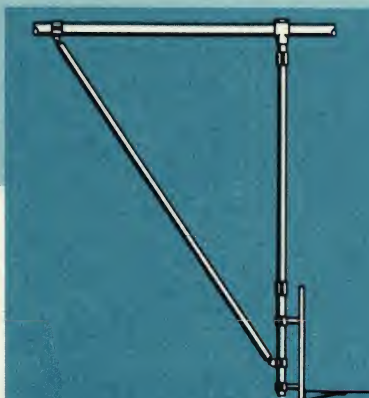
A handsome, rigid unit available in spans of 6 to 12 ft. . . the ideal main court backstop! This unit can be furnished with all types of bankboards.



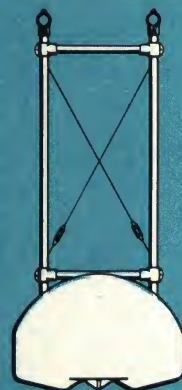
SERIES 500



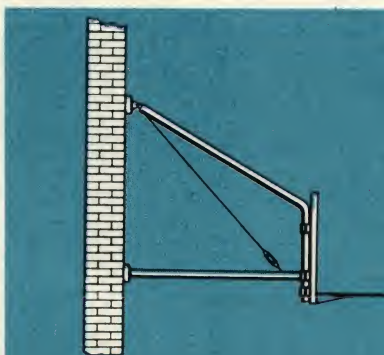
SERIES 700



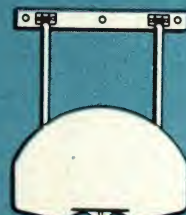
SIDE VIEW



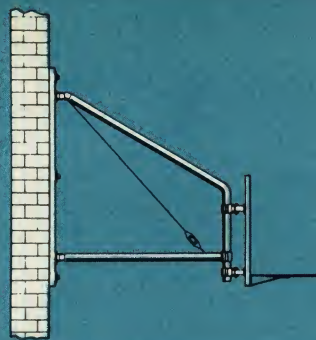
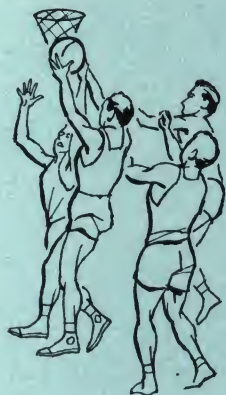
FRONT VIEW



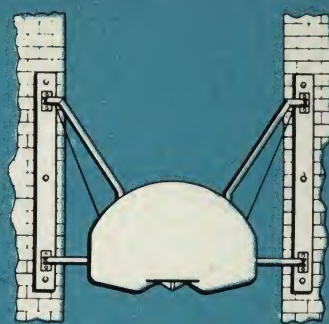
SIDE VIEW



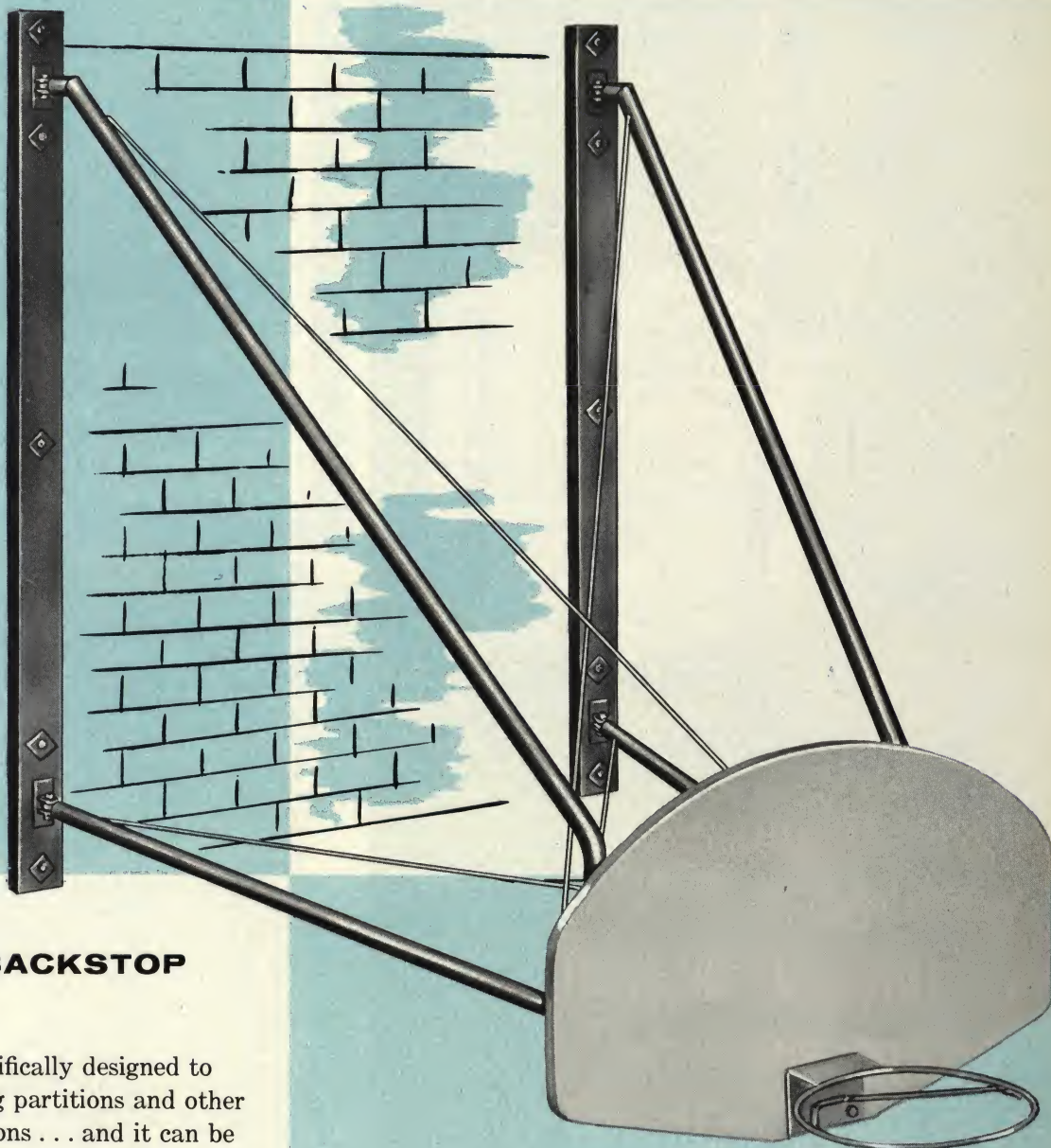
FRONT VIEW



SIDE VIEW



FRONT VIEW



SERIES 750

GATE TYPE BACKSTOP SERIES 750

A wall type unit specifically designed to span windows, folding partitions and other gymnasium obstructions . . . and it can be easily swung aside when not in use. Unit works well when basket must be hung on centerline of folding partition. Side frames swing against the wall on each side of the obstruction with the bank facing out on one of the frames. It may be used as a practice unit in this position. Furnished with wood or steel bankboards. By adding an exterior folding brace, it is possible to adapt this unit to support glass bankboards.



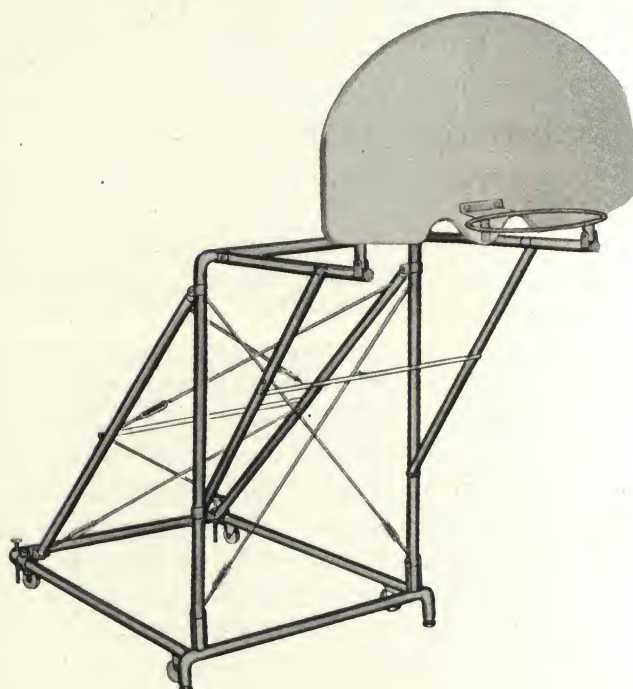
**NOW — *Brunswick*
INTRODUCES
A UNIQUE MECHANISM
FOR TWO-POSITION
BANKBOARD ADJUSTMENT**

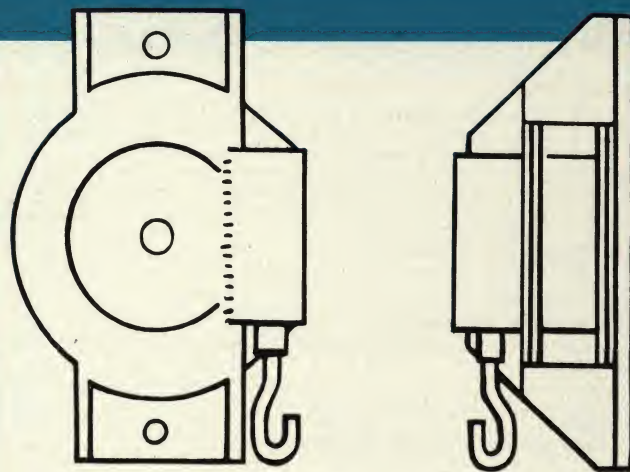
An exclusive Brunswick telescoping drop pipe design provides for easy manual adjustment to either the "Little League" 8 ft. standard height or to the 10 ft. N.B.A. standard height. This unique mechanism, available on the 312, 400 and 500 series units, allows the use of all types of bankboards.



**STAGE TYPE BACKSTOP
SERIES 1100**

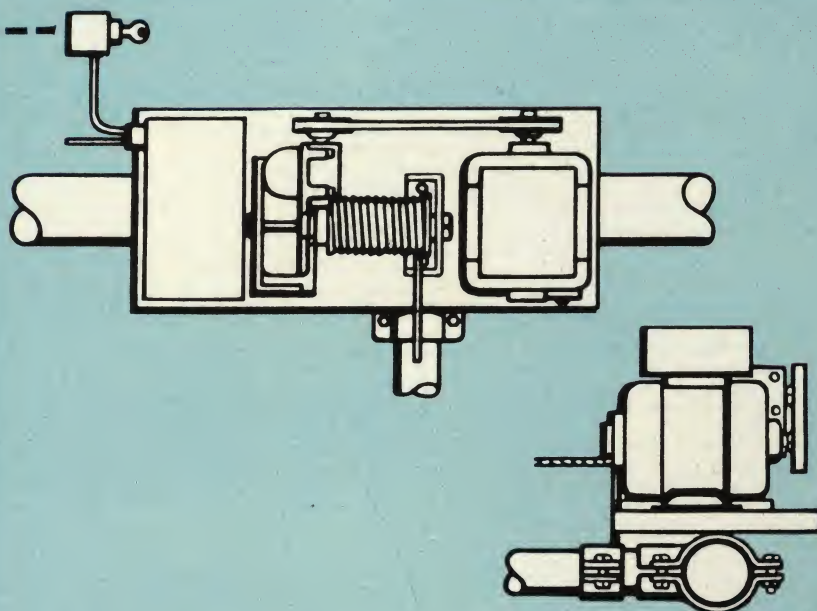
Designed for small gymnasiums or recreation halls where folding or wall-braced units are impractical. Units are anchored to the floor of the stage or gymnasium floor and are easily folded and rolled away for storage. Frames are welded for maximum strength; bolted fittings are used at all adjustment and dismantling points. It is available with fan-shaped bankboards of wood, steel or glass.





ECONOMICAL SAFETY WINCH

Designed for safety as well as appearance. Fully enclosed and self-locking in any position. Operates with removable extension handle to rule out unauthorized operation. Designed for portable power operation using $\frac{1}{2}$ " drill motor. Series 304 is designed for higher lifting, series 305 is for use on standard height units.



REMOTE CONTROL MOTOR OPERATOR FOR 312 AND 1500 SERIES BACKSTOPS

The Brunswick 312 Backstop is now available with a variety of remote control motor types designed to operate 3 specific types of bankboard styles. Each motor operator is complete with speed reducer and three-position key control switch for fast, dependable service.

FOLDING BASKETBALL BACKSTOP SPECIFICATIONS

1. GENERAL SCOPE:

- Folding Basketball Backstops shown in Architect's plans and specifications shall be as manufactured by The Brunswick-Balke-Collender Company, Kalamazoo, Michigan, or equal as approved by the Architect.
- Folding Basketball Backstops shall be delivered and installed by manufacturer. The entire installation shall be guaranteed against faulty materials, workmanship and operation for a period of one (1) year from date of installation.

2. EQUIPMENT REQUIREMENTS:

- Furnish units as indicated on drawings and/or as scheduled below:

1. _____
2. _____

B. OPTIONAL EQUIPMENT:

Furnish optional equipment as indicated on drawings and/or as scheduled below:

1. _____
2. _____

3. DESIGN:

(Refer to individual numbers for proper specifications)

4. FINISH:

- Backstop pipes, fittings and bolts shall be finished in black enamel at factory.
- Bankboard finish to be baked-on white enamel. Wood bankboard finish to be flat white enamel.
- Goals shall be finished in orange enamel.

TOP SUSPENDED BACKSTOPS:

OVERHEAD SUPPORTS: Backstops shall be supported by 3" pipe attached to structural members. For spans greater than 16'-0" pipe shall be reinforced by rigid trussing and cross pipes. When support members are higher than 22'-0" above floor drop frames of 2" pipe shall be used to suspend 3" pipes at 22'-0" level. Diagonal bracing of 3/8" rods with turnbuckles shall be included.

312 DOUBLE FOLDING BACKSTOP: 2" drop pipes shall have knee joints to allow unit to fold within length of mounting. Knee joints to be locked by stabilizer cables which shall automatically release when unit is folded. Spreader pipes and "X" bracing of 3/8" rods with turnbuckles to hold front frames rigid. Oblique braces of 1 1/2" pipe to include knee joint for folding. Spreader pipes and guys of 3/8" rods with turnbuckles included for rigidity. In folded position bankboard shall face down with frame folded to level of overhead supports.

400 SUSPENDED AND BRACED: 2" drop pipes suspended from overhead support shall be braced to wall at bottom by 1 1/2" pipe. Frame shall be reinforced with pipe spacers and guys of 3/8" rods with turnbuckles.

500 MODIFIED SUSPENDED AND CEILING BRACED: 2" drop pipes suspended from overhead supports to have oblique braces of 1 1/2" pipes. Spreader pipes and guys of 3/8" rods with turnbuckles included for rigidity.

1500 SIDE FOLD: 2" drop pipes suspended from overhead support with oblique bracing of 1 1/2" pipes. Knee joint in oblique bracing shall allow unit to fold sideways and up to clear center line of folding partition. Guys of 3/8" rods with turnbuckles included in open panels for rigidity.

WALL BRACED BACKSTOPS:

100 WALL BRACED: Bankboards shall be suspended into position by four (4) 1 1/2" pipes securely attached to wall. Frame shall be equipped with guys of 3/8" rods with turnbuckles. Bankboard to be supported vertically by oblique chain brace attached to lower pipes and extending at 45° angle to wall plates centered between and above pipe frame.

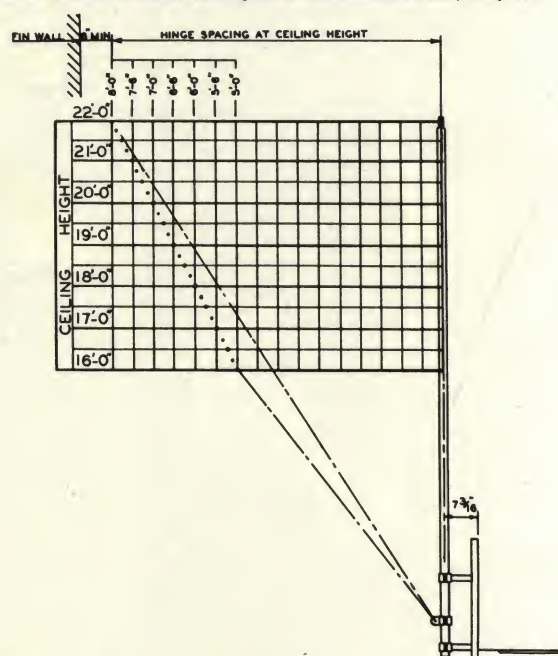
150 WALL FOLDUP: Bankboards shall be suspended in position by four (4) 1 1/2" pipes securely attached to wall. Hinge fittings at ends of pipes shall permit backstop to fold up against wall when winch is operated. Frame shall be equipped with guys of 3/8" rods and turnbuckles. Bankboard to be supported vertically by oblique chain brace attached to lower pipes and extending at 45° angle to wall plates centered between and above pipe frame.

700 MODIFIED WALL BRACED: Bankboard shall be suspended vertically on 2" pipes shaped to run obliquely from top of bankboard to wall. Lower horizontal braces of 1 1/2" pipe attached to bottom of 2" pipe for rigidity. Horizontal guys of 3/8" rods with turnbuckles and oblique guys of 1/2" rods with turnbuckles to be included.

750 GATE TYPE OR WINDOW SPAN: Bankboard shall be suspended vertically on 2" pipes shaped to run obliquely from top of bankboard to wall. Lower horizontal brace of 1 1/2" pipe attached to bottom of 2" pipe for rigidity. Bankboard shall be hinged to pipe frame with unlatching fittings to permit folding against frame, then against wall. Removable horizontal guys to hold unit rigidly in playing position. Non-removable oblique guys shall be of 1/2" rods with turnbuckles.

OPTIONAL EQUIPMENT:

- REMOTE CONTROL MOTOR OPERATOR:** Backstop unit shall be equipped with motor operator controlled by three (3) position key control switch conveniently located. Operator shall include magnetic reversing starter with 24 volt control circuit and prewired limit controls integrally mounted within unit. Unit shall include 110 volt, 60 cycle instant reversing capacitor motor of proper H.P. with built in over load protection and automatic reset. Power transmitted to cable drum through worm type reduction gear. Cable drum shall be grooved to insure positive lay of 1/4" lift cable during operation. Operator unit shall be self-locking at any position. Power outlet, conduit, and wiring from operator to key control switch by others.
- PORTABLE ELECTRIC MOTOR FOR STANDARD WINCH:** Standard 1/2" electric drill with reversing switch shall be provided with 4'-9" removable extension drive.
- WINCH:** Backstop winch shall be enclosed type with worm gear designed to provide self-locking in any position. Winch shall be placed 10'-0" above floor and operated with removable hand crank (awning type) with 6'-0" extension.
- BANKBOARDS: 50 STEEL FAN-SHAPED BANKBOARDS:** Series 50 bankboard shall be 35" high and 54" wide fabricated from one (1) piece of 12-gauge steel with 1 1/2" flanged sides. Reinforced frame welded to back to maintain flat and rigid face. Bolting connections located at four points with slotted holes for adjustment. Holes for attaching goal must be free of playing area.
- 55 FAN-SHAPED GLASS BANKBOARDS:** Series 55 bankboard shall have over-all dimension of 39" high and 54" wide. Glass shall be 3/8" Herculite set into steel frame lined with Neoprene. Holes for mounting goal shall be bushed. Border and center target to be white enamel on back side of glass.
- 150 WOOD RECTANGLE BANKBOARDS:** 150 Series bankboard shall be of one (1) piece 48" x 72" x 3/4" 5-ply fir plywood with a 1" by 5" fir frame glued and screwed to back side. Two intermediate braces of 1" x 4" fir to be placed vertically in center of boards on 5" centers for bolting goals.
- 160 GLASS RECTANGLE BANKBOARDS:** Series 160 bankboard shall be Herculite set into pressed steel frame lined with Neoprene. Goal mounting plates shall be placed front to rear with Neoprene sheeting between Herculite and plates. Holes for mounting the goals shall be bushed. Border and center rectangular target to be of white enamel on back surface.
- GOALS:** Series 10 goal used with 45 and 55 series bankboards. Series 20 goal used with 150 and 160 series bankboards. Goal shall be of 3/8" round steel, rolled to 18" inside diameter and braced and welded to steel frame so that inside of goal is 6" from face of bankboard. "No tie" hooks shall be welded to underside of goal to accommodate heavy duty net.



Folding Partitions

Sweet's File No. 22d
Hor

Folding Gymnasium Seating

Sweet's File No. 23j
Ho

Folding Stages

Sweet's File No. 23g
Ho

Brunswick

SCHOOL EQUIPMENT DIVISION
BRUNSWICK-BALKE-COLLENDER CO.
KALAMAZOO, MICHIGAN

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